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FreeZone® 6 Liter Benchtop Freeze Dry System Specifications

7752000 FreeZone® 6 Liter Benchtop Freeze Dry System

Cabinet, 12 3/4" h x 31 7/8" w x 24" d (32.4 x 81 x 61 cm), shall be glacier white and charcoal epoxy-coated steel with 3/4" black phenolic work surface and six leveling feet. Cabinet shall include 3-inch diameter attachment port in work surface for connection of accessories. Operating instruction label shall be mounted on the front panel. Three feet of 3/4" ID vacuum hose and two clamps shall be included.

Collector shall be stainless steel coil capable of collecting 6 liters of ice before defrosting. System shall remove up to 4 liters of water in 24 hours. Collector shall have clear 1/2-inch thick acrylic lid to allow ice collection on the coil to be monitored. The collector cover shall be located in the work surface in front of the attachment port to allow an unobstructed view of the collector when drying accessories are attached. Retractable 9-inch condensate drain line shall be accessible from front of cabinet to facilitate defrost. A 1/2 hp refrigeration system shall cool collector to -50° C (-58° F).

Instrumentation and Controls shall include an LCD for display of system vacuum (10⁻³ mBar), collector temperature (° C) and alarm messages. A MENU switch shall change the display from system parameters to alarm message(s). LED vacuum and temperature "wave" graphs shall display relative system vacuum and collector temperature. Front panel shall have a power switch and touchpad switches with indicator lights for automatic refrigeration/vacuum, manual refrigeration and manual vacuum. Front panel shall also include a standard 8 pin DIN recorder jack and alarm light.

Electrical Requirements 115 volts, 60 Hz, single phase, 9 amps without accessory vacuum pump. A 115 volt electrical receptacle shall be located on the back of the cabinet to connect the vacuum pump to the system. An 8-foot, 3 wire cord with 20 amp plug shall be provided. **A 115 volt, 60 Hz, 150 liter/minute**

vacuum pump shall be required for operation (not included).

Shipping weight 170 lbs. (77 kg)

*7752001 FreeZone® 6 Liter Benchtop Freeze Dry System

Specifications are the same as for 7752000 except for the following changes.

Electrical Requirements 230 volts, 50 Hz, 3.5 amps without accessory vacuum pump. A 230 volt electrical receptacle shall be located on the back of the cabinet to connect the vacuum pump to the system. An 8-foot, 3 wire cord shall be provided. **An electrical plug shall be required (not included). A 220/208-230 volt, 50 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Agency Approval. System shall have CE conformity marking as set by the European Community for electrical safety and electromagnetic compatibility.

7752003 FreeZone® 6 Liter Benchtop Freeze Dry System with Teflon*-Coated Collector

Specifications are the same as for 7752000 except for the following changes.

Collector chamber and coil shall be Teflon-coated for processes involving corrosive compounds.

7758000 FreeZone® 6 Liter Benchtop Freeze Dry System with Stoppering Tray Dryer

Specifications are the same as for 7752000 except for the following additions.

Stoppering Tray Dryer 19 1/4" h x 32" w x 23 3/4" d (48.9 x 81.3 x 60.3 cm), shall be glacier white and charcoal epoxy-coated steel with door of 3/4-inch thick clear acrylic. Tray

* International Electrical Configuration

* Teflon® is a registered trademark of E. I. duPont de Nemours

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Dryer shall include built-in stoppering mechanism for use with three processing shelves. Each shelf shall measure 16 1/2" w x 12" d to provide 196 square inches of area for sample containers. The spacing between shelves shall accommodate a bottle with stopper up to a maximum height of 75 mm and minimum height of 38 mm when three shelves are used, a maximum height of 107 mm and a minimum height of 56 mm when two shelves are used, and a maximum height of 196 mm and a minimum height of 114 mm when one shelf is used. A support stand, 4 3/4" h x 30" w x 15" d (12.1 cm x 76.2 cm and 38.1 cm), shall be supplied with the Tray Dryer to allow connection to the FreeZone Freeze Dry System via a 3-inch diameter outlet on the bottom of the Tray Dryer cabinet.

Shelf Cooling and Heating shall be provided by a 1/2 hp, CFC-free refrigeration system and 1000-watt electric heater. Fluid medium circulating through channels in the shelves shall cool and heat from -34° to +40° C (-29° to +104° F). Microprocessor shall control circulating fluid temperature to +1° C of set point.

Tray Dryer Instrumentation and Controls shall include LCD located on front panel for continuous indication of system and sample temperatures (° C) and chamber vacuum (10⁻³ mBar) in MONITOR mode. AUTOMATIC and MANUAL modes shall be used for setting system parameters. Microprocessor-based controller shall permit temperature ramp and hold programming for up to 5 segments. Shelf refrigeration and heating shall be selected and automatically controlled from -34° to +40° C (-29° to +104° F). Microprocessor shall have built-in memory to allow repetition of identical protocols. Three probes shall be included to monitor temperature of samples. Front panel shall include programming switches, display selector switch, run/stop switch, mode selector switch, power switch, stoppering control, vacuum release valve,

1/8" OD backfill port and DIN, 7 pin, 240° recorder jack.

Electrical Requirements for Freeze Dry System 115 volts, 60 Hz, single phase, 9 amps without accessory vacuum pump. An 8-foot, 3 wire cord with 20 amp plug shall be provided. **A 115 volt, 60 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Electrical Requirements for Tray Dryer 115 volts, 60 Hz, single phase, 18.8 amps. An 8-foot, 3 wire cord with 20 amp plug shall be provided for connection to a wall outlet.

Shipping weight 620 lbs. (281 kg). Shipped in two cartons.

***7758001 FreeZone® 6 Liter Benchtop Freeze Dry System with Stoppering Tray Dryer**

Specifications are the same as for 7752000 except for the following changes.

Stoppering Tray Dryer Cabinet 19 1/4" h x 32" w x 23 3/4" d (48.9 x 81.3 x 60.3 cm), shall be glacier white and charcoal epoxy-coated steel with door of 3/4-inch thick clear acrylic. Tray Dryer shall include built-in stoppering mechanism for use with three processing shelves. Each shelf shall measure 16 1/2" w x 12" d to provide 196 square inches of area for sample containers. The spacing between shelves shall accommodate a bottle with stopper up to a maximum height of 75 mm and minimum height of 38 mm when three shelves are used, a maximum height of 107 mm and a minimum height of 56 mm when two shelves are used, and a maximum height of 196 mm and a minimum height of 114 mm when one shelf is used. A support stand, 4 3/4" h x 30" w x 15" d (12.1 cm x 76.2 cm and 38.1 cm), shall be supplied with the Tray Dryer to allow connection to the FreeZone Freeze Dry System via a 3-inch diameter outlet on the bottom of the Tray Dryer cabinet.

Shelf Cooling and Heating shall be provided

* *International Electrical Configuration*

FreeZone® 6 Liter Benchtop Freeze Dry System Specifications

by a 1/2 hp, CFC-free refrigeration system and 1000-watt electric heater. Fluid medium circulating through channels in the shelves shall cool and heat from -34° to +40° C (-29° to +104° F). Microprocessor shall control circulating fluid temperature to +1° C of set point.

Tray Dryer Instrumentation and Controls shall include LCD located on front panel for continuous indication of system and sample temperatures (° C) and chamber vacuum (10^{-3} mBar) in MONITOR mode. AUTOMATIC and MANUAL modes shall be used for setting system parameters. Microprocessor-based controller shall permit temperature ramp and hold programming for up to 5 segments. Shelf refrigeration and heating shall be selected and automatically controlled from -34° to +40° C (-29° to +104° F). Microprocessor shall have built-in memory to allow repetition of identical protocols. Three probes shall be included to monitor temperature of samples. Front panel shall include programming switches, display selector switch, run/stop switch, mode selector switch, power switch, stoppering control, vacuum release valve, 1/8" OD backfill port and DIN, 7 pin, 240° recorder jack.

Electrical Requirements for Freeze Dry System, 230 volts, 50 Hz, 3.5 amps without accessory vacuum pump. An 8-foot, 3 wire cord shall be provided. **An electrical plug shall be required (not included). A 220/208-230 volt, 50 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Electrical Requirements for Tray Dryer, 230 volts, 50 Hz, 9.3 amps. An international cord set including an 8-foot, 3 wire cord with electrical plug shall be provided for connection to a wall outlet.

Agency Approval System shall have CE conformity marking as set by the European Community for electrical safety and electromagnetic compatibility.

Shipping weight 620 lbs. (281 kg). Shipped in two cartons.

7758003 FreeZone® 6 Liter Benchtop Freeze Dry System with Stoppering Tray Dryer and Teflon-Coated Collector

Specifications are the same as for 7752000 except for the following changes.

Stoppering Tray Dryer Cabinet 19 1/4" h x 32" w x 23 3/4" d (48.9 x 81.3 x 60.3 cm), shall be glacier white and charcoal epoxy-coated steel with door of 3/4-inch thick clear acrylic. Tray Dryer shall include built-in stoppering mechanism for use with three processing shelves. Each shelf shall measure 16 1/2" x 12" d to provide 196 square inches of area for sample containers. The spacing between shelves shall accommodate a bottle with stopper up to a maximum height of 75 mm and minimum height of 38 mm when three shelves are used, a maximum height of 107 mm and a minimum height of 56 mm when two shelves are used, and a maximum height of 196 mm and a minimum height of 114 mm when one shelf is used. A support stand, 4 3/4" h x 30" w x 15" d (12.1 cm x 76.2 cm and 38.1 cm), shall be supplied with the Tray Dryer to allow connection to the FreeZone® Freeze Dry System via a 3-inch diameter outlet on the bottom of the Tray Dryer cabinet.

Shelf Cooling and Heating shall be provided by a 1/2 hp, CFC-free refrigeration system and 1000-watt electric heater. Fluid medium circulating through channels in the shelves shall cool and heat from -34° to +40° C (-29° to +104° F). Microprocessor shall control circulating fluid temperature to +1° C of set point.

Tray Dryer Instrumentation and Controls shall include LCD located on front panel for continuous indication of system and sample temperatures (° C) and chamber vacuum (10^{-3} mBar) in MONITOR mode. AUTOMATIC and

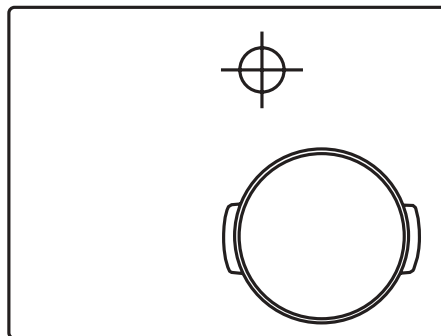
FreeZone[®] 6 Liter Benchtop Freeze Dry System Specifications and Dimensional Data

MANUAL modes shall be used for setting system parameters. Microprocessor-based controller shall permit temperature ramp and hold programming for up to 5 segments. Shelf refrigeration and heating shall be selected and automatically controlled from -34° to +40° C (-29° to +104° F). Microprocessor shall have built-in memory to allow repetition of identical protocols. Three probes shall be included to monitor temperature of samples. Front panel shall include programming switches, display selector switch, run/stop switch, mode selector switch, power switch, stoppering control, vacuum release valve, 1/8" OD backfill port and DIN, 7 pin, 240° recorder jack.

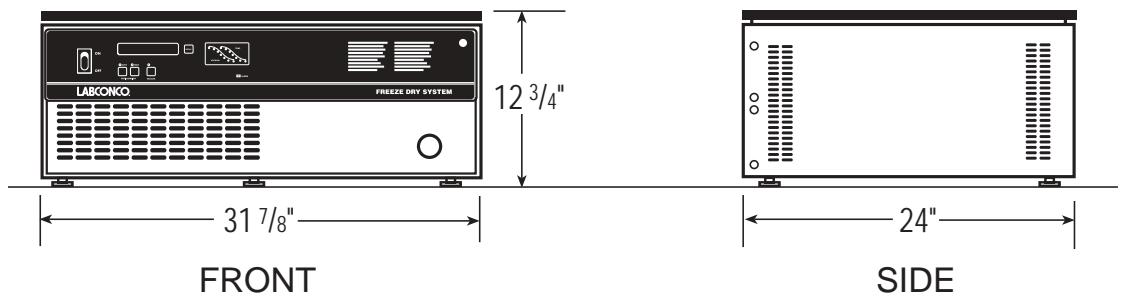
Collector chamber and coil shall be Teflon-coated for processes involving corrosive compounds.

Electrical Requirements for Freeze Dry System, 115 volts, 60 Hz, single phase, 9 amps without accessory vacuum pump. An 8-foot, 3 wire cord with 20 amp plug shall be provided. **A 115 volt, 60 Hz, 150 liter/minute vacuum pump shall be required for operation (not included).**

Electrical Requirements for Tray Dryer 115 volts, 60 Hz, single phase, 18.8 amps. An 8-foot, 3 wire cord with 20 amp plug shall be provided for connection to a wall outlet. Shipping weight 620 lbs. (281 kg). Shipped in two cartons.



TOP



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